

**CALIFORNIA DEPARTMENT OF TRANSPORTATION  
DUTY STATEMENT**

<b>CLASSIFICATION TITLE</b> Structural Steel Welder	<b>DISTRICT/DIVISION/OFFICE</b> D10 Bridge Maintenance	
<b>WORKING TITLE</b> Structural Steel Welder	<b>POSITION NUMBER</b> 910-680-6598	<b>EFFECTIVE</b>

**As a valued member of the Caltrans team, you make it possible for the Department to improve the mobility across California by being innovative and flexible; reporting to work regularly and on time; working cooperatively with team members and others; and treating others fairly, honestly and with respect. Your efforts are important to each member of the team, as well as those we serve.**

**GENERAL STATEMENT:**

Under the direction of a CT Bridge Maintenance Supervisor, the Structural Steel Welder performs electric welding, gas welding, and metal shop fabrication for State-owned bridges and facilities in District 10. Work with bridge maintenance crews performing highway, building and pump plant bridge facility maintenance.

**TYPICAL DUTIES:**

- 50% (E) Operate electric welding and shop equipment such as iron workers, hydraulic presses, cutoff saws, band saws, drill presses and magnetic drills; operate an oxyacetylene torch and welding equipment in heating, cutting and performing related work in maintaining and repairing steel structures. Cuts, shapes, and welds structural steel members; removes welds and rivets and replaces with high strength bolts; removes projecting steel and caulks seams; repairs and straightens broken or bent bridge members and caulks seams; applies heat to steel to straighten or repair damaged members or to eliminate moisture and accomplish other purposes on beams, plates, angles, and bars; builds fixtures for fabrication of structural steel assemblies; works from and erects or assists in erecting scaffolding or emergency rigging; on occasion uses pneumatic caulking, chipping and riveting tools.
- 25% (E) Under the direction of a bridge maintenance supervisor, instructs, inspects and performs the repair of concrete, asphalt, epoxy overlays for bridge decks and roadways. Incumbent make repairs of structural steel, concrete and timber structures; maintains building and bridge facility including cleaning of bridge decks, drainage systems, piers and lubrication of various bridge components. Must be able to keep records of labor, equipment and materials used.
- 25% (M) Assists with general bridge maintenance activities such as but not limited to: Traffic control, traffic safety device repair, or the operation of specialized bridge Maintenance equipment. May be required to assist with purchasing materials.

## **SUPERVISION EXERCISED OVER OTHERS**

The Structural Steel Welder does not have supervisory responsibilities, but may at times provide guidance to other Bridge Maintenance employees.

## **KNOWLEDGE, ABILITIES AND ANALYTICAL REQUIREMENTS:**

Thorough knowledge of: Welding symbols, methods, materials, tools and equipment used in fusion welding on structural steel; proper methods of applying heat to structural steel members. Must have knowledge of construction and maintenance methods and emergency procedures.

Knowledge of: The department's safety and health policies and procedures; knowledge of basic safety practices contained in the California Code of Regulations, Title 8 Industrial Relations, Construction Safety Orders and the General Industry Safety Orders regarding personal protective equipment.

Ability to: Use an electric welder and an oxyacetylene torch in cutting and welding work and their adjustment and repair; operate shop equipment such as iron workers, hydraulic presses, cutoff saws, band saws, drill presses and magnetic drills; read, interpret, and work from plans, drawings, and specifications; follow directions; rig and erect scaffolding and staging and work at considerable heights over land and water; do fabrication on, and repair of, moveable ladders, stagings, and miscellaneous bridge components and equipment. Must have the ability to work independently as well as in a Team environment.

License or Certification Requirements: Possession of the American Welding Society (AWS) D1.5 All-Positions Unlimited Plate Thickness Groove Test welding certification. Possession of a valid Class "A" or "B" Driver's License (CDL) is desirable.

## **CONSEQUENCE OF ERROR/RESPONSIBILITY FOR DECISIONS:**

Incorrect decisions or error in judgment could result in improper work practices that may endanger the safety of both Caltrans employees and the public.

## **PUBLIC AND INTERNAL CONTACTS:**

The position has extensive internal contacts within the department, the District and the State. Other public contacts may be with local, City, County or Federal Communications Centers.

## **PHYSICAL, MENTAL AND EMOTIONAL EQUIREMENTS:**

The employee may be required to sit or stand for long periods of time. Will be required to lift boxes, supplies, materials, tools and equipment

The incumbent will be required to manage assignments, deadlines and complete the requirements efficiently. The incumbent will also be required to prioritize work assignments while under pressure.

Must possess the physical ability to work above ground from scaffolds, make use of ladders access bridge structures in excess of 200 feet above the traveled way and below ground in pump plant facilities. Physical agility and fitness is a must to work on structures under continuous adverse weather conditions. Vision and hearing must be normal, or corrected to normal. Willingness to work rotating shifts including weekends, and to work at extreme heights from suspended scaffolding. Incumbent will be required to be confined space certified.

**WORK ENVIRONMENT:**

Incumbent will be required to respond to emergency callouts before and after normal working hours, including holidays and weekends during all weather conditions.

- Employee will work in a climate-controlled shop under artificial lighting.
- Incumbent will be required to travel throughout the District.
- Extreme Weather conditions
- Heights of over 250 feet
- Below ground depths of 60`
- High winds
- Work around moving equipment
- Working around fast moving traffic
- Work inside Bridge structures
- Work in confined spaces
- Work around lead paint and solvents

I have read and understand and can perform the duties listed above without reasonable accommodation. If you believe you may require accommodation, please discuss this with the hiring Supervisor.

\_\_\_\_\_  
Employee Name (Print) Employee (Signature)

\_\_\_\_\_  
Date

I have discussed the duties with and provided a copy of this duty statement to the employee named above.

\_\_\_\_\_  
Supervisor Name (Print) Supervisor (Signature)

\_\_\_\_\_  
Date